



NSS EVO2 Series Navigation Technology

NSS EVO 2 SERIES

SonarHub is integrated in NSS evo2 and combines award-winning StructureScan™ Sonar, Broadband Sounder and CHIRP technology to give anglers the ability to view fish and structure in both 3D imaging and high-definition sonar.



KEY FEATURES

- **Low Profile Glass Design**
- **Touch Sensible – Multi-Touch & Rotary Control**
- **Widescreen, Multi-Touch Display**
- **All New “Made for Cruising” Steering and Trip Calculator Pages**
- **All New easy to use Music Control and Autopilot Control Widgets**
 - **Built in High Gain 10Hz GPS/GLONASS**
 - **Built in CHIRP/Traditional Sonar (Combo Models)**
 - **Built in Structurescan (Combo Models)**
- **Compatible with Navionics, Insight, C-MAP, NV-Digital Chart Offerings**
 - **High Brightness Displays**
- **All New HEROiC Software**
- **OP40 Remote Operable**
- **Chartplotter and Combo Versions Available**

CHARTPLOTTER ONLY

000-11182-001	NSS7M evo2 7" Display with Insight Charts
000-11186-001	NSS9M evo2 9" Display with Insight Charts
These units includes C-MAP North America Charts:	
010-11183-004	NSS7M evo2 7" Display with C-MAP Charts

COMBINATION CHARTPLOTTER / FISHFINDER

000-11184-001	NSS7 evo2 7" Display with Insight Charts
000-11190-001	NSS9 evo2 9" Display with Insight Charts
000-11192-001	NSS12 evo2 12" Display with Insight Charts
000-11196-001	NSS16 evo2 16" Display with Insight Charts

NSS BUNDLES - ENJOY BIG SAVINGS

000-11450-001	NSS9 + 4G Radar
000-11451-001	NSS12 + 4G Radar

000-10298-002	OP40 Wired Remote for NSO Processor
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OP40

SIMRAD

NSE Series Navigation Technology

NSE SERIES (Northstar Edition)



Building on Simrad's distinguished history of marine electronics and innovative technologies, the Simrad NSE is the multifunction navigation device engineered for anyone serious about performance navigation. Available in 8-inch or 12-inch sizes with embedded industry-leading cartography, a lightning-fast 1.6GHz processor, high-bright, LED backlit, bonded LCD, alpha-numeric and direct access keys, and a fresh, yet familiar intuitive user interface yield exemplary performance and practical design. Equipped with Simrad's exclusive SimNet System and the available BR24 Broadband Radar or HD Digital Arrays and BSM1 Broadband Sounder, the NSE is the MFD of choice for those who require rugged dependability and unmistakable style. US version features Insight HD with shaded relief contour overlays. • Lightning fast, fully loaded chartplotter • Award winning echosounder and radar technology • All new Simrad Control Interface for easy operation • Elegant design, brutally strong Simrad construction • Networking flexibility build in redundancy with Masterless system • Brilliant, low power LED display technology. Displays include, bezel, sun cover, mounting bracket and knobs, flush mount kit, power cable, Data/Video cable, SimNet starter kit: power cable and 7-way multi-joiner, installation and operation documentation, cleaning cloth. GPS Antenna, echosounder, and radar kits sold separately.

- AA010146** 8" NSE Multifunction Display Dims:11.2"W x 8.3"H x 4.6"D
- AA010148** 12" NSE Multifunction Display Dims:14"W x 10.7"H x 4.8"D

(Displays include the following: bezel, sun cover, mounting bracket and knobs, flush mount kit, power cable, Data/Video cable, SimNet starter kit: power cable and 7-way multi-joiner, installation and operation documentation, cleaning cloth.

SimNet Accessories

- | | |
|-----------------|--|
| 24005729 | SimNet to Micro C Male Cable |
| 24005837 | 2m SimNet Cable |
| 24005845 | 5m Simnet Cable..... |
| 24005852 | 10m SimNet Cable |
| 24005860 | 3 Prong SimNet Joiner |
| 24005886 | SimNet Connector Protection Plug |
| 24005894 | SimNet Terminator |
| 24005936 | AT10 NMEA 0183 To SimNet Converter |
| 24006298 | SimNet 7 Prong Joiner |
| 24005902 | SimNet 2M Power Cable w/Terminator |
| 22098594 | Stainless steel fitting |
| SIMKIT1 | 1 cable kit |
| SIMKIT2 | 2 cable kit |
| SIMKIT3 | Microc - Simnet |
| 24006413 | 4m adapter cable, female..... |
| 24006199 | adapter cable, SimNet C female - SimNNet 1M..... |

SIMRAD



Monitors not
included

SIMRAD NSO EVO2 MAIN PROCESSOR UNIT with INSIGHT AMERICA MAPS

Overview

- The NSO evo2 (MPU - Marine Processor Unit) is the premium single or multi-display multifunction navigation system for performance-minded boaters.
- NSO16 evo2 is a multi-touch black box system with dual independent video output, multi-touch screen control (pinch to zoom), and wide-screen monitor.
- The NSO evo2 offers dual high-definition, video output each with a lightning fast quad-core processor for quick response and high performance in single and dual independent display installations.

Dual Independent Displays

One NSO processor allows independent control of two screens, giving you the freedom to view and control your onboard systems more easily while making every dual station installation or larger networked system simple and much more cost effective.

Quad Core Processors

Performance Modules

The Simrad NSO evo2 is compatible with the full range of available Performance Modules. From the professional-level performance of our CHIRP or StructureScan Echosounders to the incredible image clarity of our HD Digital and Broadband Radars; the NSO evo2 provides a solid foundation for any integrated navigation system.

Interfaces

Ethernet	3 ports total - 1 & 2 are PoE (RJ45 socket)
NME2000	1 port on rear (Micro-C male)
Video input	2 ports on rear (BNC female, NTCS or PAL format)
Video output	1024x768 (XGA 4:3)
	1280x720 (HD 16:9)
	1366x768 (WXGA)
	1920x1080 (Full HD 16:9)
	1920x1200 (WUXGA 16:10)
	1280x800 (16:10)
	1280x1024 (SXGA 5:4)
USB	mass storage, keyboard and mouse (Type A socket)
SD	32GB (Full size SD card socket)
NMEA 0183 baud rate	4800,9600,19200, & 38400 (via proprietary cable)
NMEA 0183 via RS422	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
Charting support	Navionics, CMAP, Insight, NV Charts on SD

000-10998-001	NSO EVO 2 Marine Processor.....
000-11485-001	NSO EVO 2 Dual 16" Bundle with OP40

SIMRAD



DI15 15-inch monitor



NSO marine processor



OP40 wired remote controller

NSO15 – 15" Monitor and Marine Processor

The NSO15 Package is a plug & play combination, consisting of our powerful NSO marine processor, OP40 wired remote controller, DI15 15-inch monitor and dash-mounted SD card reader.

Features:

- Stylish 15" Simrad monitor
- Ideal for all types of mounting including glass bridge
- Each processor can support up to 3 monitors (2 DVI and 1 RGB)
- Rugged, black box 'brain' of the system with 80GB hard drive
- OP40 wired remote controller with rotary control and dedicated keys will control up to four processors
- NSE SW software platform delivers the comprehensive functionality and ultra-fast response times first introduced on the Simrad NSE 2.0 system
- Network up to 4 processors via Ethernet and SimNet/NMEA2000
- Dash-mounted SD card reader supports Navionics Platinum Plus and TurboView allows system-wide cartography networking
- Each processor supplied with embedded regional cartography (Navionics Coastal Cartography for EMEA/APAC and InsightHD for the US.)

- Superfast load and re-draw times with NSE SW software platform
- Customize your system by adding plug and play Simrad performance modules
- Compatible with all Navico / Simrad performance modules, including radar (BR24 broadband radar and Simrad HD Digital radar 2-25kW), BSM-1 and BSM-2 Broadband Sonar, StructureScan Sonar, AIS, GPS, WM-2 Weather Module, SonicHub, CZone and more
- Customize the displays to show information just the way you want it
- Compatible with Simrad NSE units
- NSO15 package supplies a processor, DI15 15" monitor, OP40 wired remote and dash-mounted SD card reader for a first level, ready to go system
- Or create your own customized installation with multiple screens and processors
- NSO Offshore integrated navigation system for vessels with larger helm displays. The NSO Offshore line is versatile and easy to expand. Based on the Simrad NSE platform, the NSO delivers "best in class" charting, sounder and radar performance as well as unique control and integration options.

The Simrad NSO cutting-edge performance navigation systems provide uncompromising bridge aesthetics and unrivalled technology integration. The NSO premier navigation system will complement any vessel from multi-helm luxury yachts to offshore-tested sport fish boats without the risk and expense of a custom design. Offering market leading performance and state-of-the-art technology, Simrad NSO combines robust construction and elegant design with innovative performance modules for precision navigation and piloting.

The Simrad NSO Series is the most flexible system available today. Select from three sizes of brilliant Simrad monitors or you have the option to select a standard monitor. Combine NSO and NSE in the same network and add multiple control units. Share chart, radar, or any Simrad performance module across the system. Build an NMEA 2000 network to your exact helm requirements, whether it is a single station or multi-monitor vessel, NSO delivers a bespoke solution.

The basic Simrad NSO15 package consists of the powerful NSO processor, a DI15 15" monitor, the OP40 wired remote and a dash-mounted SD card reader and provides a premium chart plotter with embedded regional cartography straight out of the box. From there the owner can then choose from Simrad's extensive range of performance modules (black box instruments designed to be connected to control and display units) and create the integrated navigation system to suit his needs, all controlled and monitored from his Simrad NSO via fully-customisable displays. Modules and screens can be added or replaced at any time.

000-10294-001 NSO15 Package 15" with Insight HD Cartography

SIMRAD

ACCESSORIES NSO / NSE / NSS

SonicHub™ – Marine Audio Server



Take your music onboard and experience the ultimate in marine audio with Bluetooth streaming connectivity from your enabled media device to the SonicHub® module -- allowing control of your favorite selections directly from your chartplotter/multifunction display. For additional convenience, the optional UNI-Dock can be dash-mounted and connected to the SonicHub module – providing a direct, watertight connection to smartphones, media players and USB flash drives.

000-11606-001 SonicHub Marine Audio Server with BlueTooth.....

BSM-3 – Broadband Sounder with CHIRP



Designed for professionals and serious sportfishing enthusiasts, the BSM-3 is a high performance, dual-channel broadband sounder with CHIRP technology. Its 3,000m (10,000ft) working range means you can venture further offshore, with the confidence to find the fish you're looking for.

The BSM-3 is built for tough offshore conditions, with rugged all-aluminum housing. New transducer connectors make installation and service easier than ever, with no need to open the case or wire anything by hand when using Airmar's latest range of transducers.

000-11742-001 BSM-2 Broadband Sounder for NSE, NSO and NSS

GS25 GPS MODULE



Key Features: High Speed Position Update • Rapid Signal Acquisition • Consistent Position Accuracy • Integrated Magnetic Heading • GPS, WAAS, EGNOS and more • Compact Design • Fully Waterproof • NMEA2000® Connectivity • Simrad Yachting Construction

**Please note this product is not suitable for use with MARPA or autopilot systems, this requires a rate compass such as the RC4.*

000-11043-001 GS25 GPS Module.....

WM-3 Weather Module



Compatible with all Simrad NSS, NSE and NSO Multifunction Displays, the new Simrad WM-3 SiriusXM™ Satellite Weather & Radio Module is compatible with SiriusXM's new North America equatorial Satellite System, while ensuring future feature expandability.

Easy to install with up to 99-feet of total cable length plus a compact housing and splitter, the WM-3 is network-controlled through high-speed Ethernet with a built-in dual RCA male audio cable for direct connections to the SonicHub™ entertainment system or virtually any marine stereo.

Easy pole or deck mounting with all hardware included.

000-11076-001 WM-3 Weather Module.....

Gofree WiFi-1 Wireless Module



The WIFI-1 is a wireless bridge that allows owners of NSS displays to view data when utilized in conjunction with a wireless device.*

000-11068-001 GoFree WiFi-1 Wireless Module

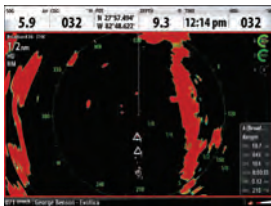
**In order to work in conjunction with the WIFI-1 module, your Simrad NSS Multifunction Display must be upgraded to software version RTM 2.5, which will be available for download from the Simrad Yachting website.*



SIMRAD

RADARS

3G Broadband Radar



- **30% More Range:** Broadband 3G™ Radar allows you to see more targets farther away from your boat. Now you get the same impressive short-range capabilities of the original Broadband Radar™ with the addition of exposing targets previously unseen before.
- **Unparalleled Short Range Target Discrimination:** Provides amazing target resolution, even at an unprecedented 1/32 nm range. Docks, channel markers, moored vessels and other critical targets are displayed with clarity and separation, for added confidence in close quarters. Broadband Radar™ technology also eliminates the "main bang" of a pulse radar — the obscured "dead zone" immediately around the vessel — which interferes with close target detection.
- **Lowest Rf Transmission For Safe, Flexible Installation:** Transmits at 1/10,000 the power of typical pulse radars (emitting 5 times less energy than an average cell phone), the radome is safe to mount in locations never before possible. Ideally suited for sailboats and other vessels with limited power.
- **Navigation In An Instant:** No more waiting 2-3 minutes for a magnetron to warm up - 100% solid-state design provides InstantOn™ capability.

000-10420-001 3G Radar for NSS / Simrad NSE / Simrad NSO



4G Broadband Radar

- **Beam Sharpening:** The only dome radar in the world to employ beam sharpening. Now you can control the level of target separation depending upon the situation, which allows you to see the sharpest images possible when you need them most.
- **More Range:** With 50% more true range than Broadband 3G™ Radar, you can see crystal clear targets at up to 32nm and inside strong storm cells at up to 17nm.
- **Dual range:** Capable of displaying Dual Range radar combinations. Now you can monitor targets from 200ft to 32nm with just one dome and one display.
- **Unrivalled Short-Range Target Discrimination:** With twice the azimuth resolution of any other 18" radome on the market, moored vessels, docks, channel markers and other critical targets are displayed with pronounced clarity and separation.
- **Zero Main Bang – Vision Where You Need It Most:** Broadband Radar™ technology eliminates the "main bang" – obscured viewing "dead zone" immediately around the boat - associated with pulse radar.
- **Low Rf Transmission For Safe, Flexible Installation:** Transmitting less than 1/10,000 the power of a typical pulse radar and less than an average mobile phone, Broadband 4G™ Radar can be safely mounted anywhere onboard your boat.
- **Instant Navigation:** No need to wait 2-3 minutes for a magnetron to warm up. Broadband Radar technology is 100% solid-state, providing navigation in seconds with InstantOn™ technology.

000-10421-001 4G Radar for NSO / NSE / NSS; use 3G for NX series.....



HD Digital Radars

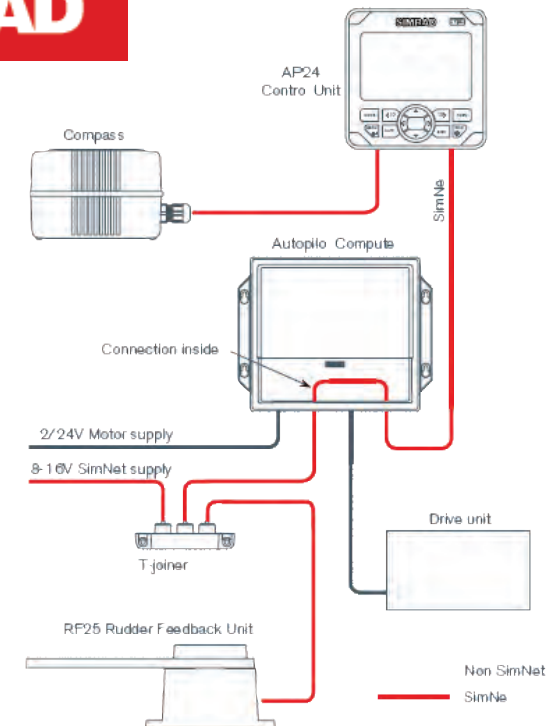
The Simrad Yachting High Definition Digital Radar range will meet your specific needs. Radomes are available in 2kW (18") and 4kW (24") models. Open Array options include 6kW (4'), 10kW (6') and 25kW (7') models.

TX06S1 4' 6kW Open Array w/ processor and 20M cable

000-11477-001 TXL10S6 10kW 4' Radar Open Array / 20M Cable / 24V

000-11478-001 TXL10S6 10kW 6' Radar Open Array / 20M Cable / 24V

SIMRAD



Installation & Integration

AP24 AUTOPILOT

Compact design, fully featured...The all new AP24 combines space saving design with state of the art auto steering, making it the perfect choice when space is at a premium. A new SimNet plug & play network provides simplified installation and enhanced integration with other Simrad products.

Complete set of Turn Patterns – including Depth Contour Tracking, programmable S-turn, Zig-Zag, Continuous turn, Square patterns and many more. Improved steering algorithms – full Rate Of Turn (ROT) control provides smooth and precise turns in any condition and improves tack and gybe performance on sailboats. No Drift Course – Maintain set Course Over Ground even in severe wind and current conditions.

Installation & Integration (See diagram above)

The AP24 utilizes the Simrad Intelligent Marine Network – SimNet, which features plug and play operation and Slim Line connectors for easy cable routing, so you'll be up and running in very little time. The ability to 'daisy chain' SimNet instruments in any order allows you to use the most efficient cable runs possible when installing the equipment.

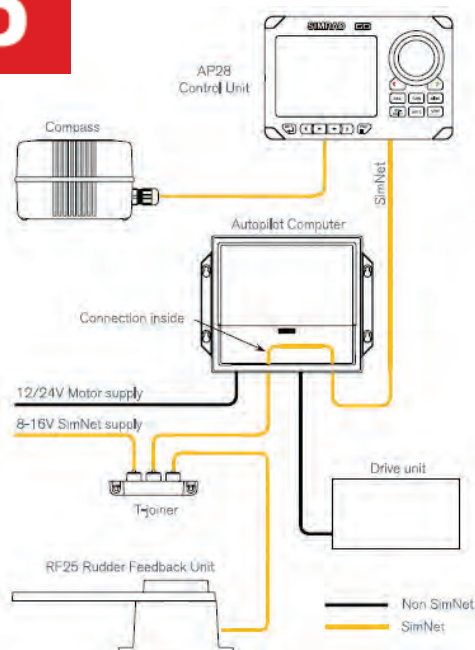
•(4.5"W x4.5"H x 1"D)

22096267	AP24 Control Unit.....
00010198001	AC42 Computer, main unit for the AP24/AP28 Units.....
AP2403VRF	Basic system with AP24, AC12, RC42, RPU80

NMEA CONNECTIVITY

000-10866-001	AC12N Control Unit.....
000-10867-001	AC42N Computer, main unit for the AP24/AP28 Units.....

SIMRAD



AP28 AUTOPILOT

- State of the art display and control functions and advanced SimNet networking, makes the all new AP28 the perfect autopilot for larger power and sail boats. The AP28 control unit features a large LCD display and operation via the brand new interface is intuitive to say the least. This simple display and control setup gives you access to a raft of features and performance options.
- Complete set of Turn Patterns – including Depth Contour Tracking, programmable S-turn, Zigzag, Continuous turn, Square patterns and many more. Improved steering algorithms – full Rate of Turn (ROT) control provides smooth and precise turns in any condition and improves tack and gybe performance on sailboats. No Drift Course – Maintain set Course over Ground even in severe wind and current conditions.

Installation & Integration - see diagram above

New SimNet compass and rudder sensor, are easier than ever to install; because you no longer have to run dedicated cables back to the autopilot computer. Instead the new SimNet sensors conveniently connect via the SimNet backbone.

The advanced nature of the SimNet network insures the compass and rudder data is automatically routed back to the AP28 autopilot, plus any other SimNet compatible instruments, such as IS20 Compass and Rudder displays. SimNet also features Slim Line connectors for easy cable routing, so you'll be up and running in very little time. •(6.8"W x4.5"H x 2"D)

AP28 AUTOPILOT

22096366	AP28 Control Unit.....
00010198001	AC12 Computer, main unit for the AP24/AP28 Units

NMEA CONNECTIVITY

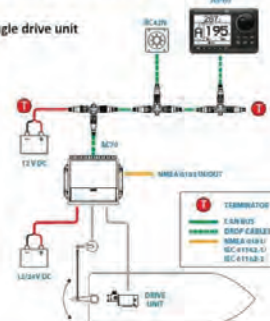
000-10866-001	AC12N Control Unit.....
000-10867-001	AC42N Computer, main unit for the AP24/AP28 Units.....

SIMRAD



AP60 Example Systems

AP60 Basic system – single drive unit



AP60 Pack – AP60, AC70 Computer, RF300 Feedback

Replacing the renowned AP35, the AP60 is a cost effective autopilot system available on the market today, providing commercial vessels with the perfect balance of performance and price. **Key Features:** • Cost effective advanced autopilot system with thruster interface • Compatible with an extensive range of existing Simrad autopilot controllers and accessories • 2 user configurable WORK profiles, customise parameters to suit individual vessel needs • Designed by the world leaders in autopilot technology • Backed by the Simrad Advantage Service program which includes 7 years of worldwide product support.

The Simrad AP60 is an entry level pilot packed with features often reserved for high-end autopilots. It completes with Simrad autopilot range, sitting just under the premium AP70 and AP80 systems. Based on the proven user interface of the AP70/80 and offering thruster integration, the AP60 is incredibly easy to set up and use. The intuitive menu system and large, high contrast mono screen size with clear digits make reading the display effortless. The heading control includes a rotary course control wheel, as well as dedicated WORK, AUTO and STANDBY buttons, enabling simple performance selection depending on your task at sea. The AP60 includes 2 user configurable WORK modes – these allow the operator to have pre-set modes of operation for the vessel. An operator could have light ship, partially loaded, fully loaded, underway, trawling or manoeuvring options pre-loaded. The AP60 also includes turn patterns such as U-Turns, C-Turns, Dodging and NoDrift steering – features you wouldn't expect to find in an entry level pilot. The Simrad autopilot series prides itself on flexibility and the ability to customise a solution to steer any vessel. The control unit can be used in isolation, as part of a multi-station system, or alongside a wide range of control units. The AP60 is also compatible with the most comprehensive range of Simrad autopilot controllers and accessories such as rudder feedback units, computers and interface boxes, heading sensors etc. This unit stands out amongst the competition for its sheer versatility and the ability to meet the needs of a wide range of both leisure and commercial vessels.

000-11217-001 AP60 Pack – AP60, AC70, RF300

000-11220-001 AP60 Control Autopilot Control Head

AC70 Autopilot Computer

A comprehensive range of computers and interface units are offered with the Simrad AP70 and AP80 autopilots providing a complete solution for every steering system. Drive computer for rudder using reversible motor or non-isolated solenoids and frequency rudder angle feedback. Connection for NFU remote control and one channel IEC 61162-1 (NMEA 0183) RX/TX or IEC 61162-1, 2 and 3 compatible.

000-10186-001 AC70 Autopilot Computer

AC80S Autopilot Computer

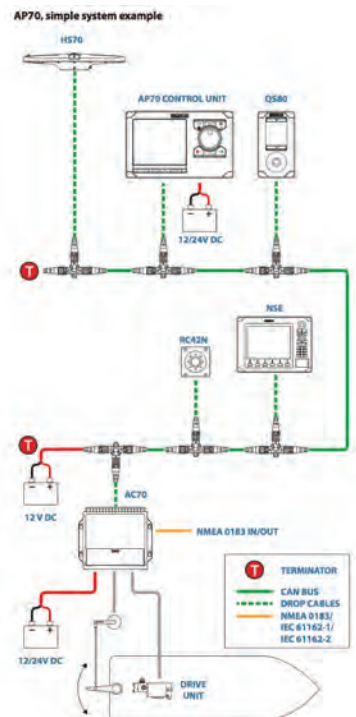
Simrad AC80S Autopilot Drive Computer for on/off or proportional control of rudder or thruster using galvanic isolated solenoids or high-level current with possibility for frequency, voltage or current angle feedback, digital drive handshake and external mode input. Built-in CAN bus supply and 4-channel IEC 61162-1 (NMEA 0183) RX/TX. Wheelmark approved.

000-10188-001 AC80 Autopilot Computer





SIMRAD



AP70 Autopilot

The AP70 is our flagship Pilot controller, embedded with the most comprehensive technology from over 60 years of experience. This state-of-the-art, commercial grade autopilot combines an unrivalled adaptive auto-steering system with a bright and clear, colour display and a user interface designed by captains for captains.

Key Features

- Large Colour Display - The 5-inch screen is highly visible and easy to read due the vivid colour palette.
- Smooth Rotary Controller - Adjust your course with ease using the rotary controller, with push to enter functionality.
- Easy To Use Interface - An intuitive user interface, designed by captains, with simple menus and dedicated keys ensures that you can alter course and find the information you need quickly and easily.
- Rudder Interface Options - Comprehensive range of rudder support options, including dual rudder.
- Thruster Integration - Interfaces with jets and thrusters.
- CAN Bus & NMEA0183® - Network the AP70 via industry standard connectors for ease and simplicity.
- Optional Remote Joystick - Choose from a range of optional joysticks and remote levers to enhance your steering experience.
- Simrad Yachting Build - Made from ruggedized aluminium, the AP70 is not only feature packed, but also highly durable.
- Fully Waterproof - Certified to IPX4

000-10577-001 AP70 Autopilot

AP70 Control Head

AP70 Control unit MFG# 000-10182-001 with user manual, 6m cable with connectors in both ends, T-connector, 2m power cable with connector in one end, protective cover gasket for panel mounting and mounting screws. Supply 12-24 VDC.

000-10182-001 AP70 Control.....

SIMRAD



SG05 CAN-bus for Optimus 360 Steering Systems

The Simrad SG-05 CAN-bus Autopilot connects directly to Optimus and Optimus 360 steering systems giving you a fully integrated steering, navigation and autopilot system. The Optimus steering system is different: Instead of using a manual helm pump, an electronic helm sensor sends signals along a CAN-bus network to the Pump Control Module which powers the hydraulic pump.

Advantages of SG05 and Optimus:

With an Optimus steering system installed, the autopilot can be fitted in minutes: simply plug into the Optimus CAN-bus network.

No need to Tee into hydraulic lines.

The compact design of the SG05 makes it easy to install

000-10906-001 SG05 for Optimus 360 Steering Systems.....

Autopilot Core Packs

How to order an autopilot system:

1. Choose appropriate Autopilot core-pack. See description for pack contents.
2. Choose your autopilot display/controller. This could be AP24/28, MFD or IS40 with an OP-10 display and controller.
3. Choose appropriate drive type.



- 000-11036-001** Low Current Core Pack with AC12 Computer, RC42 Compass, RF300 Feedback, N2K Kit.....
- 000-11037-001** Low Current Core Pack VRF with AC12 Computer, RC42 Compass, N2K Kit
- 000-11038-001** High Current Core Pack with AC42 Computer, RC42 Compass, RF300 Feedback, N2K Kit.....
- 000-11039-001** High Current VRF Core Pack, with AC42 Computer, RC42 Compass, N2K Kit

N2K Kit Contains

- Micro C 4-way block
- TR-120-Kit
- 119-775 N2K-PWR-RD Micro-C power cable and T-connector
- 119-86 N2KEXT-15RD, 4.5m (15')Micro-C cable

Simrad FU80 Follow-Up Remote

Simrad FU80 Follow-Up Remote is a Follow Up remote which means that the rudder, when hand steering, moves to the commanded angle set by turning the knob to port or starboard. Wheelmark approved for systems including AC80A, AC80S or AC85. Enhance your heading control system with a choice of three full-function remote controls.

Key Features: • 35mmx25mm display • Type approved • Two mounting options - desktop and panel (flush) • Network based with NMEA2000 cabling • Backward compatible with AP24, AP28, NSE, NSO.

Each has a 1.4 x 1.0 in/35 x 25 mm bonded display, are type-approved, and can be desktop or panel (flush) mounted. Fully waterproof (IPx6 & IPx7), these remotes can be installed in the best location for efficient operation. All remotes are easily networked, so installation is quick and simple with multiple remotes possible on one installation.

000-10183-001 FU80 Follow-Up Remote.....



SIMRAD

DRIVE UNITS



Simrad Yachting develops powerful drive units based on long experiences from the rough conditions in the North Atlantic Ocean as well as the high humidity and high temperatures in Florida and other tropical areas. They drive the rudder with precision and endurance through the toughest conditions and on the longest crossings. Several models are available to fit the various types and sizes of boat and steering systems.

RPU80 Drive Unit

Hydraulic steering systems are now being used in every category of small vessel.

21116181 RPU80

RPU160 Drive Unit

Hydraulic systems normally comprise of two main components, a steering wheel pump and steering cylinder(s)

21118237 RPU160



RPU300 Drive Unit

The linear motion of the cylinder rod is transformed to a rotary motion by the tiller, which turns the rudder shaft and rudder.

21118245 RPU300



Linear Drives (most preferred on sailboats)

HLD2000

Hydraulic steering systems are now being used in every category of small vessel.

21113360 HLD2000 Linear Drive



HLD2000 Split Linear Drive

Split version with the pump separated from the ram and interconnected with 1m (3ft) hoses.

21113386 HLD2000 Split Linear Drive

HLD350

Designed for boats with mechanical steering systems such as wire and cable steering.

21113303 HLD350 Linear Drive



HLD350 Split Linear Drive

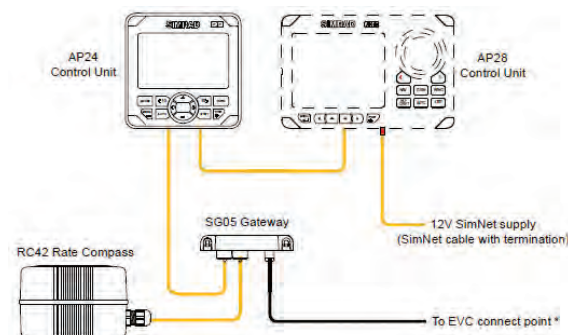
Split version with the pump separated from the ram and interconnected with 1m (3ft) hoses.

21113311 HLD350 Split Linear Drive

RPU300 24V Pump

21118468 RPU300 Pump With 24V Motor (17.7 - 58.6 Cu. In.)

000-10258-001 Volvo IPS Gateway



SIMRAD

Autopilot Parts

22011415
 21116272
 20187423
 21116272
 CB1
 LF3000
 LFI3000MKII
 PRE90
 RF25
 RF300
 VERHOSEKIT6FT
 R3000X
 000-10932-001

RF45X Rudder Reference
 Verado Fitting Kit
 Teleflex Adapter For HC5345 Cylinder
 Verado Fitting Kit
 CB1 Cantilever Bracket
 LF3000 Linear Feedback
 LFI3000 interface box for NX40/45
 PRE90 90mm Push Rod
 RF25 Rudder Reference
 RF300 Rotary Rudder
 6' Hose Kit for Verados
 R-3000X Remote
 OP10 Autopilot Control



400L Class B AIS Black Box Interface

Reduce your risk of collision with this latest generation, fully integrated, Class-B AIS transponder—essential for navigating today's busy shipping lanes and congested ports. Compact in size, lightweight, fully waterproof, with low power draw and featuring multiple connections, the NEW NAIS-400 is ideal for networking with any NSS, NSE or NSO chartplotter / multifunction display and Simrad RS VHF system. Key Features: Class-B Approved. See and Be Seen. Compatible Black Box Solution. NMEA 2000® / NMEA 0183®. Fully Waterproof.

000-10980-001 NAIS 400L Class B AIS with GPS Antenna
 000-10982-001 NSPL-400 AIS Antenna Splitter



CD100A COURSE DETECTOR

The sensor and interface unit connects the AP50 system to a magnetic compass. The AP50 provides excitation current for CD100A and converts the analog sine/cosine signal to digital two-wire format for the autopilot steering computer

20106688 CD100



Tiller & Wheel Pilots for Sailboats

TP10

For tiller steered sailboats up to 33' and 7400 lbs displacement. Optional handheld remote—HR22. Includes NSKT300 kit.

SIMTP10

For tiller steered sailboats up to 36' and 11000 lbs displacement supplies peak thrust of 154lbs. Optional handheld remote—HR22.

SIMTP22

TP32

For tiller steered sailboats up to 39' and 14000 lbs displacement. Supplies peak thrust of 187lbs. Optional handheld remote—HR22. Includes NSKT300 kit.

SIMTP32



SIMRAD

IS20 Instruments

The new IS20 multifunction instrument series features Simrad's revolutionary new SimNet data bus and active sensor technology. The IS20 Digital instruments provide an assortment of graphic trend indicators and sophisticated navigation data on a large high contrast dot matrix display (backlit LCD 4.5" matrix display), providing easy viewing in any light condition.



IS20 Combi

Depth, Speed, Temp display for sail or power boats, or as part of a larger integrated IS20 multifunction system. Transducer NOT included.

22098420 Combi Display



IS20 Compass

IS20 COMPASS System provides a precise 360° analog and digital heading read out. Additionally the "Lock to Course Feature" enables display of cross track error (XTE). 360° analog compass readout. Digital compass heading. XTE (Cross Track Error). FC40 Fluxgate Compass sensor (Optional RC42 Rate Compass available). SimNet Slim Line cables and connectors for easy installation.

22095939 Compass Display



IS20 Graphic is a new multifunctional instrument that's ideal as a dedicated instrument for any data to be read at distance in the cockpit or on the mast. The flexibility to quickly toggle between display pages makes the IS20 GRAPHIC the perfect universal performance instrument. Choose from 8 user configurable easy to read data pages with multiple data types on one screen, including Speed, Depth, Wind, Log, Timer and Vessel Data. The IS20 GRAPHIC instrument can also operate as a multifunction SimNet or NMEA0183 repeater for other products.

22095582 Graphic Display



IS20 Rudder

IS20 Rudder Instrument provides precise readout of rudder angle which makes it invaluable when docking your boat or use it to trim your boat to the least rudder resistance while sailing. The IS20 Rudder System includes the Rudder display and rudder angle sensor. Additionally the instrument is capable of displaying compass heading and cross track error when connected to the IS20 Compass system or a SimNet compatible autopilot.

22095996 Rudder Display



IS20 Tack

IS20 Tack instrument provides a magnified view of the wind angle and is a must for day cruisers and club racers when sailing close hauled. Apparent and True wind angle and wind speed. VMG (Velocity Made Good).

22095921 Tack Display



IS20 Wind

IS20 Wind System includes the IS20 high performance SimNet Wind Vane. A highly advanced Kalman filter insures superior accuracy and fast reaction time to changes in wind speed and direction. Apparent and true wind angle and wind speed. VMG (Velocity Made Good). High performance SimNet Wind Vane. Advanced Kalman Wind Filter. SimNet Slim Line cables and connectors for easy installation.

22098438 Wind System

22095558 Wind Display

000-10637-001 Simrad 508 Wind Sensor Only

SIMRAD

IS20 Systems



IS20 Sail Boat System

Simrad IS20 basic Sailboat system wind and combi display is a new multifunctional instrument array that's ideal as a dedicated instrument for any data to be read at distance in the cockpit or on the mast. The flexibility to quickly toggle between display pages makes the IS20 GRAPHIC the perfect universal performance instrument. Choose from 8 user configurable easy to read data pages with multiple data types on one screen, including Speed, Depth, Wind, Log, Timer and Vessel Data. The IS20 sailboat instrument can also operate as a multifunction SimNet or NMEA0183 repeater for other products. All Simrad IS20 instrument dials and buttons are illuminated for dusk and night operation. Get great viewing clarity in low light or dusk conditions by selecting the white illumination. Keep your night vision intact by selecting the red backlight at night. (4.5"W x 4.5"H x 2" D - all units.)

22098529 Sail Boat System.....



IS20 Power Boat System

Simrad IS20 Basic Power Boat system with Graphic and Combi display is a new multifunctional instrument array that's ideal as a dedicated instrument for any data to be read at distance in the cockpit or on the mast. The flexibility to quickly toggle between display pages makes the IS20 GRAPHIC the perfect universal performance instrument. Choose from 8 user configurable easy to read data pages with multiple data types on one screen, including Speed, Depth, Wind, Log, Timer and Vessel Data. The Simrad IS20 power boat instrument can also operate as a multifunction SimNet or NMEA0183 repeater for other products. All Simrad IS20 instrument dials and buttons are illuminated for dusk and night operation. Get great viewing clarity in low light or dusk conditions by selecting the white illumination. Keep your night vision intact by selecting the red backlight at night.

22098537 Power Boat System.....



IS40 Instruments

Color Instrument Display

The IS40 is an easy to use, flexible, full color, digital instrument display offering best in class performance. Featuring multiple data pages, the IS40 enables you to clearly read the information you want, when and where you want. When coupled with the intuitive OP10 autopilot controller and the necessary computers and drives, it can operate as a standalone autopilot or it can easily be integrated as part of a much larger electronics system.

000-10931-001 IS40 Digital Display
000-10955-001 IS40 Speed/Depth Pack
000-10956-001 IS40 Sail Package Depth/Speed/Wind.....

What Customers Are Saying About Win-Tron Electronics

"... If I have questions about a new product or feature that I have not had the luxury of trying before I deliver it to a retail customer I know I can ask Eddie or one of the sales reps. They are much more than "order takers". They know the product they're selling as well (if not better) than I do...."

— Justin Goins, Owner, Yacht Tech Marine Electronics

SIMRAD

Compasses



RC37 Rate Compass

Simrad RC37 Rate Compass is a fluxgate compass with a built in rate sensor that significantly improves the dynamic performance of the compass. This makes it an excellent heading source for autopilots, chart plotters, radars and other equipment that will benefit from the dynamic characteristics of RC37.

22084446 RC37 Rate Compass AP9/AP45/NON X 300/3000



RC42 Rate Compass

The RC42 is an intelligent rate compass which significantly improves the dynamic performance of autopilots and stabilised radar displays. Featuring an integrated turn sensor, the RC42 enhances all auto-steering experiences. *Key Features:* Magnetic Fluxgate Sensor • Solid State Rate Sensor • Fully Waterproof • NMEA2000® Connectivity • Simrad Yachting Construction.

22090195 RC42 Rate Compass w/5M SimNet Cable

10613001 RC42N Rate Compass NMEA 2000 w/5M SimNet Cable.....



FC40 Fluxgate Compass

The FC40 Fluxgate Compass provides accurate heading data for auto-steering and navigational purposes. *Key Features:* Magnetic Fluxgate Sensor • Dual Axis Gimbal • Fully Waterproof • NMEA2000® Connectivity • Simrad Yachting Construction.

22090187 FC40 Fluxgate Compass w/5M SimNet Cable.....

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- 7008-KIT HAWK WIFI 1 WATT BOOSTER KIT Uses the titanium bullet for extreme weather conditions. Increase your range up to 25 miles. Use on boats, RVs, and in offices. (ROUTER NOT INCLUDED) **\$282.50**



VHF Radios

RS12 DSC VHF Radio – Class D



4-line display, and GPS capable. Highly visible backlit LCD Display. NMEA2000 compatible. 10 weather channels (U.S. Only). Easy grip, molded microphone, quick keys provides simple and reliable operation, while the built-in speaker delivers crisp, sharp audio.. Supports all International Marine Channels. Easy access to digital Select Calling (DSC) functions. Class D and SC-101 compliant for global use with selectable Dual and Tri Watch modes. Three user-programmable channels. Equipped with memory retention, and can log up to 10 distress calls and 20 individual DSC calls. Quick keys for 16/9, 3CH/+/- provide quick channel changing, plus CALL, EXIT, SCAN, and MENU buttons for simple operation. ATIS function, 20 user-programmable names with MMSI and a second receiver for Channel 70. The RS12 comes complete with yoke, rear flush mounting kit, power and NMEA interface cables.

000-10787-001 RS12 Class D VHF

RS35U VHF/AIS Radio



Key Features: Class D DSC Approved. Dual Channel AIS Receiver. Ergonomic fist mic with built in speaker. Wireless Handset Option. Fully Waterproof. Position Poll, Track & Group Call. Dual/Tri Watch. Lat/Long Display. Loud And Clear Audio including 22 Watt Hailer with listenback. NMEA 0183® and NMEA 2000 Compatible. Advanced radio features including AIS plot.

000-10790-001 RS35U Class D VHF

HS35 VHF/AIS Radio Wireless Handset

Key Features: Wireless Control. Intercom. Inductive Charging. 100m Range. Keypad Lock. Fully Waterproof.

000-10791-001 RS35 Class D VHF/AIS Radio Wireless Handset

HH36U Handheld VHF

Key Features: Extra Large Display. Waterproof. Floats. Class D DSC. Integrated GPS. Dedicated Channels. Easy to use. Dual watch. Selectable transmit power. Long battery life. 'Get Buddy' feature. NMEA 0183. Navigation mode. Plotter mode.

000-10785-001 HH36U Hand Held VHF Floating with GPS

